ENGLISH

CLASS XII

TERM I	TERM II
1. Comprehension of unseen passage **WRITING** 2. Notice 3. Invitations 4. Letter to the editor 5. Article writing **Literature** **Flamingo** **Prose:** 6. The Last lesson 7. Lost Spring 8. Deep Water 9. Rattrap 10. The Interview **Poems:** 11. My Mother at Sixty-Six 12. Keeping Quiet 13. A Thing of Beauty **VISTAS** 14. The Third Level 15. Tiger King 16.The Enemy	**Half Yearly Exam +** **WRITING** 1.Job Application 2. Report Writing **Literature** **Flamingo** **Prose:** 3. Poets and Pancakes 4. Going Places 5.Indigo **Poems:** 6. Roadside Stand 7. Aunt Jennifer's Tigers **VISTAS** 8. Journey to the end of the Earth 9. On the Face of It 10. Memories of Childhood PREBOARD- Entire Syllabus

Mathematics

CLASS XII

TERM 1	TERM 2
Ch-1. Relations. & Functions Ch-2. Inverse trigonometric functions Ch-3. Matrices. Ch-4. Determinants Ch-5. Continuity & Differentiability Ch-6. Application of Derivatives Ch-7. Integrals Ch-8. Application of Integrals UT-1 Ch: 1,3,4	Ch-9 Differential Equations Ch-10 Vector Algebra Ch-11 Three Dimensional Geometry Ch-12 Linear Programming Ch-13 Probability Ch: 5-8 Preboard: Entire syllabus

PHYSICS

CLASS XII

TERM 1	TERM 2
Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics (upto refraction) (page 325 NCERT)	ENTIRE SYLLABUS (PART1 AND PART2 NCERT)

CHEMISTRY

CLASS XII

TERM 1	TERM 2
Ch 2: solutions Ch 3; Electrochemistry Ch 4: Chemical Kinetics Ch 10: Haloalkanes and haloarenes Ch 12 : Alcohols, phenols and ethers Ch 13 : Amines	Ch 8: d and f block elements Ch 9: coordination compounds Ch 12: Aldehydes, ketones and carboxylic acids Ch 14: Biomolecules Pre board- Entire syllabus

BIOLOGY

CLASS XII

TERM 1	TERM 2
Chapter 2- Sexual reproduction in flowering plants. **Chapter 3- Human reproduction.** **Chapter 4- Reproductive health.** **Chapter 5- Principles of inheritance and variation.** **Chapter 6- Molecular basis of inheritance.** **Chapter 7-Evolution** **Chapter 13- organisms and population.** **Chapter 14- Ecosystem.**	**Chapter 5- Principles of inheritance and variation.** **Chapter 6- Molecular basis of inheritance.** **Chapter-8: Human Health and Diseases** **Chapter-10: Microbes in Human Welfare** **Chapter-11: Biotechnology - Principles and Processes** **Chapter-12: Biotechnology and its Applications** **Chapter-15: Biodiversity and its Conservation** Pre board- Entire syllabus

HISTORY

CLASS XII

TERM 1	TERM 2
1.Bricks, Beads and Bones-The Harappan Civilization 2.Kings, Farmers and Towns-Early States and Economics(C. 600 BCE-600 CE) 3.Kinship, Caste and Class :Early Societies(C. 600 BCE-600 CE) 4.Thinkers,Beliefs and Buildings :Cultural Development(C. 600 BC-600 CE) 5.Through the Eyes of Travellers/Perceptions of Society(C.10th to 17th Centuries) 6.Bhakti – Sufi Traditions : Changes in Religious Beliefs and Devotional Texts(C. 8th to 18th Centuries) 7.An Imperial Capital: Vijayanagara(C. 14th to 16th Centuries) Periodic Test I Syllabus: Chap. 1 Bricks, Beads and Bones-The Harappan Civilization Chap. 2 Kings, Farmers and Towns-Early States and Economics(C. 600 BCE-600 CE) Syllabus for Half yearly Exam Chap. 1 to 7.	8.Peasants, Zamindars and the State :Agrarian Society and the Mughal Empire(C.16th – 17th Centuries) 10.Colonialism and the Countryside: Exploring Official Archives 11.Rebels and the Raj: The Revolt of 1857 and its Representations 13.Mahatma Gandhi and the National Movement- Civil Disobedience and Beyond 15.Framing the Constitution:The Beginning of a New Era Syllabus for Pre board 1 Chap. 6 to 15. Pre board 2 – Entire syllabus

GEOGRAPHY

CLASS XII

TERM 1	TERM 2
Part A: Fundamentals of Human Geography 1. Human Geography-Nature and Scope 2.The World Population 4.Human Development 5. Primary Activities 6. Secondary activities 7. Tertiary Activities 8. Transport And Communication 9. International Trade	**Part B:People and Economy** 1. Population-Distribution, Density and Growth 4. Human Settlements 5.Land Resource and Agriculture 6.Water Resource 7. Minerals 9. Planning and Sustainable Development of India 10. Transport, Communication and International Trade 11. Geographical Perspective on selected issues and problems. **Preboard-** Entire Syllabus

POL SC

XII

TERM 1	TERM 2
Part A: Contemporary World Politics Ch-1 :The End of Bipolarity Ch-2 :New Centers of Power Ch-3 :Contemporary South Asia Ch-4 :United Nations and its Organizations Ch-5 :Security in the Contemporary World Ch-6 :Environment and Natural Resources Ch-7 :Globalization Unit test -1 Ch-1 : The End of Bipolarity including US Hegemony (Pg. 32-38 and Pg. 45-46) (Part of Ch-3) Half-Yearly Part A: Ch-1-7	Part B: Politics in India since Independence Ch-1 :Challenges of Nation-Building Ch-2 :Politics of Planned Development Ch-3 :India's Foreign Policy Ch-4 :Parties and Party System in India Ch-5 :Democratic Resurgence Ch-6 :Regional Aspirations Ch-7 :Indian Politics: Recent Trends and Development Unit Test 2: Ch-2 :New Centers of Power Ch-3 :Contemporary South Asia Sem 2 : Part B : Ch- 1-7 PRE-BOARD : Entire Syllabus Part A & B

ECONOMICS

CLASS XII

TERM I	TERM II
Part A: Macro Economics 1. National Income Accounting 2. Money and Banking 3. Government Budget 4. Balance of payment and foreign exchange **Part B: Indian Economic Development** 1. A brief introduction of the state of the Indian economy on the eve of independence. 2. Indian economic system and common goals of Five Year Plans. 3. Economic reforms since 1991 4. Human Capital Formation **Unit test -1** 1. Money and Banking 2. Government Budget (excluding deficit budgeting)	**Part A: Macro Economics** Unit 1: National Income Accounting Unit 3: Determination of Income and Employment **Part B: Indian Economic Development** 1. Rural development 2. Employment 3. Sustainable Economic Development 4. Development Experience of India **PREBOARD** **(The whole syllabus)**

BST

CLASS XII

TERM 1	TERM 2
Nature and Significance of Management Principles of Management Business Environment Planning Organising Staffing Controlling	Directing Financial Management Financial Markets Marketing Management Consumer Protection

ACCOUNTS

CLASS XII

TERM 1	TERM 2
UNIT 1 1. Partnership Fundamentals including goodwill 2. Change in profit sharing ratio 3. Admission of a partner 4. Retirement of a partner 5. Death of a partner 6. Dissolution of a firm UNIT 2 1. Accounting for share capital	Entire syllabus of term 1 and unit 2 1. Issue of debentures Part B 1. Financial statements of a company 2. Analysis of financial statements 3. Ratio Analysis 4. Cash flow statement

COMPUTER SCIENCE

CLASS XII

TERM I	TERM II
Unit I: Computational Thinking and Programming – 2 **Revision of Python topics covered in Class XI.** **Functions:** types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths **Text file**: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file **Binary file**: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file **CSV file**: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader( ) **Unit III: Database Management** **Database concepts: introduction to database concepts and its need** **Relational data model:** relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) **Structured Query Language:** introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases,	**Unit I: Computational Thinking and Programming – 2** Data Structure: Stack, operations on stack (push & pop), implementation of stack using list. **Unit II: Computer Networks** **Evolution of networking**: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) **Data communication terminologies**: concept of communication, components of data communication (sender,receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) **Transmission media:** Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves **Network devices** (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) **Network topologies and Network types**: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) **Network protocol:** HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP **Introduction to web services**: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website,

drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command **Aggregate functions** (max, min, avg, sum, count), group by, having clause, joins : Cartesian product on two tables, equi-join and natural join	web browser, web servers, web hosting. **Interface of python with an SQL database:** connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications

IP

CLASS XII

TERM 1	**TERM 2**
Unit 1: Data Handling using Pandas -I Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames. Data Visualization Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots. **Unit 2: Database Query using SQL** Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by.	**Unit 3: Introduction to Computer Networks** Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies. **Unit 4: Societal Impacts** Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology. **Preboard:** Entire Syllabus

Mid Sem 1: Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.	

HSC

CLASS XII

TERM 1	TERM 2
UNIT I:Work,livelihood and Career Ch1. Work, livelihood and Career **UNIT II: Nutrition, Food Science and Technology** Ch2. Clinical Nutrition and Dietetics Ch3. Public Nutrition and Health Ch5. Food Processing and Technology Ch6. Food Quality and Food Safety **UNIT III: Human Development and Family Studies** Ch7. Early Childhood Care and Education **Unit test -1** Ch2. Clinical Nutrition and Dietetics Ch3. Public Nutrition and Health	**UNIT III: Human Development and Family Studies** Ch10. Management of Support Services, Institutions and Programmes for Children, Youth and Elderly **UNIT IV: Fabric and Apparel** Ch11. Design for Fabric and Apparel Ch12. Fashion Design and Merchandising Ch15. Care and Maintenance of Fabrics in Institutions **UNIT V: Resource management** Ch17. Hospitality Management Ch20. Consumer Education and Protection **UNIT VI: Communication and Extension** Ch23. Development Communication and Journalism **PREBOARD** **Entire syllabus**

PSYCHOLOGY

CLASS XII

TERM 1	TERM 2
CH-1-Variations in Psychological attributes CH-2- Self and Personality CH-3 Meeting Life Challenges CH-4-Psychological disorders # Four Psychological tests on Intelligence , Personality,Self Concept ,Adjustment and Anxiety etc.	CH-5-Therapeutic Approaches CH-6-Attitude and social Cognition CH-7-Social Influence and Group Processes # One Test on Attitude # Case Profile PRE BOARD- Entire Syllabus

PED

CLASS XII

TERM 1	TERM 2
Ch-1 Management of sporting events Ch-2 Children & women in sports Ch-3 Yoga as preventive measure for lifestyle disease Ch-4 Physical education & sports for CWSN Ch-5 Sports & Nutrition Unit test-1 Ch-1 and Ch-2	Ch-6 Test & Measurement in sports Ch-7 Physiology & injuries in sports Ch-8 Biomechanics & Sports Ch-9 Psychology & Sports Ch-10 Training in sports Preboard- Entire syllabus

PAINTING

CLASS XII

TERM 1	TERM 2
UNIT 1: The Rajasthani and Pahari Schools of Miniature painting (16th Century A.D. to 19th century A.D. Ch 1- Miniature painting A – Rajasthani school of Painting B The Pahari Schools UNIT2: The Mughal and Deccan School of Miniature painting (16th Century A.D. to 19th century A.D) Ch1- The Mughal School or Art Ch2- The Deccan School of Art UNIT test- Rajasthani school school of painting	UNIT 3: The Bengal School painting and the Modern trends in Indian Art (about the beginning to mid of the 20th century) Ch1- Indian National flag and The Bengal School of Painting Ch 2- The Modern trends in Indian Art. • Study of methods and materials PRE-BOARD- ENTIRE SYLLABUS